

AMENDMENTS TO THE CLAIMS

Listing of Claims:

1. (Original) A method for depositing atoms of a least one first metal onto at least one surface of a substrate of a second metal, comprising the steps of:
 - cleaning said at least one surface for receiving the deposition;
 - dissolving a salt of each at least one first metal into a solvent to provide a solution containing dissolved ions of each at least one first metal;
 - providing a coated surface on the substrate by the steps of applying a layer of the metal-ion-containing solution to the surface and removing the solvent; and
 - thermally reducing the metal ions of each at least one first metal by heating the substrate in reducing atmosphere at a temperature greater than ambient for a time sufficient to deposit the atoms of each at least one first metal onto the coated surface of the substrate and cooling the substrate before removing the substrate from the reducing atmosphere.
2. (Cancelled)
3. (Original) The method of claim 1, wherein the thermal reduction step is conducted at a temperature of at least 400°C.
4. (Original) The method of claim 1, wherein the thermal reduction step is conducted at a temperature below the melting point of a second metal.
5. (Currently amended) The method of claim 1, wherein the solvent is selected from the group consisting of water and organic liquids.
6. (Cancelled)
7. (Cancelled)

8. (Cancelled)

9. (Cancelled)

10. (Currently amended) The method of claim ~~8 or 9~~ 1, wherein the salt has anions that are selected from the group comprising oxygen, hydrogen, nitrogen, carbon and combinations thereof.

11. (Currently amended) The method of claim 10, wherein the salt of each at least one first metal is selected from the group consisting of hydroxides, oxides, oxalates, carbonates, bicarbonates, citrates, cyanides, ~~formate~~ formates, acetates, nitrates and nitrites.

12. (Original) The method of claim 1, wherein the second metal substrate is formed into a useful article before the coating step and the thermal reduction step accomplishes a heat-treating step that is otherwise required for the useful article.

13. (Currently amended) The method of claim 1, wherein the second metal is a stainless-steel.

14. (Original) The method of claim 13, wherein the at least one first metal is selected from a group consisting of nickel, cobalt and combinations thereof.

15. (Original) The method of claim 1, wherein the at least one first metal is selected from a group consisting of chromium, molybdenum, tungsten, vanadium, niobium, tantalum, titanium, zirconium, boron, aluminum, gallium, silicon, germanium and phosphorus.

16. (Currently amended) A metal-coated steel strip ~~produced by the method of claim 14, wherein the steel strip~~ which displays a measured resistance of less than about 1.5 ohms after aging in an oven at 71 °C for 28 days ~~according to a cathode cup test.~~

17. (Original) A battery can produced from the steel strip of claim 16.
18. (Currently amended) A battery can produced by the method of-claim 12, wherein the ~~second metal is a stainless steel and the~~ at least one first metal is selected from the group consisting of nickel, cobalt and combinations thereof, and wherein the battery can displays a measured resistance of less than about 1.5 ohms after aging in an oven at 71 °C for 28 days ~~according to a cathode cup test.~~
19. (Currently amended) An alkaline cell comprising a battery can of claim 17 ~~or 18~~.
20. (New) The method of claim 1, wherein the solution containing dissolved ions of each at least one first metal additionally comprises carbon.
21. (New) The method of claim 20, wherein the carbon comprises graphite.
22. (New) The method of claim 14, wherein the method provides an alloy of steel and a metal selected from the group consisting of nickel, cobalt, and combinations thereof.
23. (New) The method of claim 22, wherein the second metal is low carbon steel.
24. (New) The method of claim 22, additionally comprising fashioning the alloy into a battery can.
25. (New) The method of claim 1, wherein the second metal is a pre-formed battery can.
26. (New) The method of claim 25, additionally comprising forming an alkaline cell from the battery can.

27. (New) A metal-coated steel strip according to claim 16, wherein the metal coating further comprises carbon.